

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 170154.401C1	APPLICATION NO. 10/634,874
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Babak Habibi et al.	
		FILING DATE August 6, 2003	GROUP ART UNIT 3664

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,011,437	03/08/77	Hohn	235	151.11	
	AB	4,187,454	02/05/80	Ito et al.	318	568	
	AC	4,294,544	10/13/81	Altschuler et al.	356	376	
	AD	4,523,809	06/18/85	Taboada et al.	350	163	
	AE	4,687,325	08/18/87	Corby, Jr.	356	1	
	AF	4,791,482	12/13/88	Barry et al.	358	107	
	AG	4,879,664	11/07/89	Suyama et al.	364	518	
	AH	4,985,846	01/15/91	Fallon	364	513	
	AI	5,160,977	11/03/92	Utsumi	356	376	
	AJ	5,208,763	05/04/93	Hong et al.	364	551.02	
	AK	5,325,468	06/28/94	Terasaki et al.	395	97	
	AL	5,446,835	08/29/95	Iida et al.	395	133	
	AM	5,461,478	10/24/95	Sakakibara et al.	356	375	
	AN	5,499,306	03/12/96	Sasaki et al.	382	291	
	AO	5,521,830	05/28/96	Saito	364	474.34	
	AP	5,568,593	10/22/96	Demarest et al.	395	82	
	AQ	5,608,818	03/04/97	Chini et al.	382	153	
	AR	5,715,166	02/03/98	Besl et al.	364	474.24	
	AS	5,745,523	04/28/98	Dent et al.	375	216	
	AT	5,784,282	07/21/98	Abitbol et al.	364	474.28	
	AU	5,802,201	09/01/98	Nayar et al.	382	153	
	AV	5,809,006	09/15/98	Davis et al.	369	275.4	
	AW	5,870,527	02/09/99	Fujikawa et al.	395	80	

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	AA	5,974,169	10/26/99	Bachelder	382	151	
	AB	6,004,016	12/21/99	Spector	364	167.02	
	AC	6,064,759	05/16/00	Buckley et al.	382	154	
	AD	6,278,906	08/21/01	Piepmeyer et al.	700	250	
	AE	6,392,744	05/21/02	Holec	356	4.03	
	AF	6,463,358	10/08/02	Watanabe et al.	700	253	
	AG	6,490,369	12/03/02	Beiman	382	153	
	AH	6,516,092	02/04/03	Bachelder et al.	382	181	
	AI	6,529,627	03/04/03	Callari et al.	382	154	
	AJ	6,546,127	04/08/03	Seong et al.	382	152	
	AK	6,549,288	04/15/03	Migdal et al.	356	603	
	AL	6,580,971	06/17/03	Bunn et al.	700	259	
	AM	6,721,444	04/13/04	Gu et al.	382	154	
	AN	6,724,930	04/20/04	Kosaka et al.	382	154	
	AO	6,741,363	05/25/04	Kaupert	356	602	
	AP	6,748,104	06/08/04	Bachelder et al.	382	151	
	AQ	6,836,702	12/28/04	Brogårdh et al.	700	245	
	AR	6,970,802	11/29/05	Ban et al.	702	153	
	AS	7,006,236	02/28/06	Tomasi et al.	356	614	
	AT	7,009,717	03/07/06	Van Coppenolle et al.	356	603	
	AU	7,084,900	08/01/06	Watanabe et al.	348	94	
	AV	7,177,459	02/13/07	Watanabe et al.	382	151	

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	AA	2002/0019198	02/14/02	Kamono	451	41	
	AB	2002/0156541	10/24/02	Yutkowitz	700	28	
	AC	2003/0182013	09/25/03	Moreas et al.	700	145	
	AD	2004/0037689	02/26/04	Watanabe et al.	414	730	
	AE	2004/0041808	03/04/04	Ban et al.	345	419	
	AF	2004/0073336	04/15/04	Huang et al.	700	245	
	AG	2004/0081352	04/29/04	Ban et al.	382	154	
	AH	2004/0193321	09/30/04	Anfindsen et al.	700	257	
	AI	2005/0002555	01/06/05	Kumiya et al.	382	153	
	AJ	2005/0097021	05/05/05	Behr et al.	705	36	
	AK	2005/0126833	06/16/05	Takenaka et al.	180	8.1	
	AL	2005/0233816	10/20/05	Nishino et al.	473	131	
	AM	2005/0246053	11/03/05	Endou et al.	700	188	
	AN	2006/0025874	02/02/06	Huffington et al.	700	44	
	AO	2006/0088203	04/27/06	Boca et al.	382	153	
	AP	2006/0119835	06/08/06	Rastegar et al.	356	28	
	AQ	2006/0210112	09/21/06	Cohen et al.	382	103	
	AR	2007/0073439	03/29/07	Habibi et al.	700	213	
	AS	11/754,218		Habibi et al.			05/25/07
	AT	11/779,812		Habibi			07/18/07
	AU	11/833,187		Boca et al.			08/02/07
	AV	11/857,680		Boca et al.			09/19/07
	AW	60/719,765		Habibi et al.			09/23/05
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	AA	60/808,903		Habibi et al.			05/26/06
	AB	60/832,356		Habibi			07/20/06
	AC	60/845,932		Boca et al.			09/19/06
	AD	60/875,073		Beis et al.			12/16/06

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AE	1 043 126	10/11/00	EP		
	AF	1 043 642	10/11/00	EP		
	AG	1 043 689	10/11/00	EP		
	AH	1 484 716	12/08/04	EP		
	AI	102 36 040	02/19/04	DE (+ abstract in English)		
	AJ	2000024973	01/25/00	JP (+ abstract in English)		
	AK	2005/074653	08/18/05	WO		
	AL	63288683	11/25/88	JP (+ abstract in English)		
	AM					
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OTHER PRIOR ART (*Including Author, Title, Date, Pertinent Pages, Etc.*)

	AA	Aloimonos, J., et al., "Active Vision," <i>IEEE</i> , pp. 35-54, 1987.
	AB	Anonymous, "Precise Length Measurement at VSM (Vereinigte Schmigel-Und Maschinen-Fabriken AG)," <i>News of the Astech GMBH</i> 2001(4), December 31, 2001.
	AC	Bajcsy, R., "Active Perception," <i>Proc. IEEE</i> 76(8):996-1005, 1988
	AD	Bakhtari, A., et al., "Active-Vision Based Multi-Sensor Surveillance – An Implementation," <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 36(5):668-680, September 2006.
	AE	Borotschnig, H., et al., "Active Object Recognition in Parametric Eigenspace," <i>Proc. 9th British Machine Vision Conference</i> , pp. 629-638, 1998.
	AF	Bouthemy, P., "A Maximum Likelihood Framework for Determining Moving Edges," <i>IEEE Trans. Pattern Analysis and Machine Intelligence</i> 11(5):499-511, 1989.
	AG	Brown, M., et al., "3D Model Acquisition by Tracking 2D Wireframes," <i>Proc. 11th British Machine Vision Conference</i> , pp. 656-665, 2000.
	AH	Callari, F., et al., "Active Recognition: Using Uncertainty to Reduce Ambiguity," <i>Proc. 13th International Conference on Pattern Recognition</i> , pp. 925-929, 1996.
	AI	Chaumette, F., "Potential Problems of Stability and Convergence in Image-Based and Position-Based Visual Servoing," in D. Kriegman, G. Hager and S. Morse, editors, <i>The Confluence of Vision and Control</i> , Vol. 237 of Lecture Notes in Control and Information Sciences, pp. 66-78, Springer-Verlag, 1998.
	AJ	Chaumette, F., et al., "Structure from Controlled Motion," <i>IEEE Trans. Pattern Analysis and Machine Intelligence</i> 18(5):492-504, May 1996.
	AK	Constantinescu, D., et al., "Smooth and Time-Optimal Trajectory Planning for Industrial Manipulators along Specified Paths," <i>Journal of Robotic Systems</i> 17(5):233-249, 2000.
	AL	Corke, P.I., et al., "A New Partitioned Approach to Image-Based Visual Servo Control," <i>IEEE Trans. On Robotics and Automation</i> 17(4):507-515, August 2001.
	AM	Deguchi, K., "Optimal Motion Control for Image-Based Visual Servoing by Decoupling Translation and Rotation," in <i>Proc. Int. Conf. Intelligent Robots and Systems</i> , pp. 705-711, October 1998.
	AN	Drummond, T., et al., "Real-time Tracking of Complex Structures with On-line Camera Calibration," <i>Proceedings of British Machine Vision Conference</i> , pp. 574-583, 1999.

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	AA	Eriksen, R.D., et al., "Classification and pose estimation of unconstrained 3D objects," <i>34th International Symposium on Robotics</i> , June 2-5, 2003, 7 pages.
	AB	Hartley et al., <i>Multiple View Geometry in Computer Vision</i> , Cambridge University Press, Cambridge, 2000
	AC	Holliday et al., "Demonstration of Automated Robotic Workcell for Hazardous Waste Characterization," <i>Proceedings of the International Conference on Robotics and Automation</i> 3(10):788-794, May 2, 1993.
	AD	Hutchinson, S.A., et al., "Planning Sensing Strategies in a Robot Work Cell with Multi-Sensor Capabilities," <i>IEEE Trans. Robotics and Automation</i> 5(6):765-783, 1989
	AE	Hutchison et al., "A Tutorial on Visual Servo Control," <i>IEEE Transactions on Robotics and Automation</i> 12(5), October 1996
	AF	Lowe, D.G., "Robust Model-based Motion Tracking Through the Integration of Search and Estimation," <i>International Journal of Computer Vision</i> 8(2):113-122, 1992.
	AG	Macfarlane, S., et al., "Jerk-Bounded Manipulator Trajectory Planning: Design for Real-Time Applications," <i>IEEE Trans. Robotics and Automation</i> 19(1):42-52, 2003.
	AH	Marjanovic et al., "Self-Taught Visually-Guided Pointing for a Humanoid Robot," XP-002220054, pp. 35-44, 1996.
	AI	Miura, J., et al., "Task-Oriented Generation of Visual Sensing Strategies in Assembly Tasks," CMU School of Computer Science Tech Report CMU-CS-95-116, 42 pages, 1995.
	AJ	Motai, Y., et al., "Concatenate Feature Extraction for Robust 3D Elliptic Object Localization," <i>Proc. Of the 19th ACM Symposium on Applied Computing</i> , pp. 21-28, 2004.
	AK	Murase, H., et al., "Visual Learning and Recognition of 3-D Objects from Appearance," <i>International Journal of Computer Vision</i> 14(1):5-24, 1995.
	AL	Naish, M.D., et al., "Coordinated dispatching of proximity sensors for the surveillance of manoeuvring targets," <i>Journal of Robotics and Computer Integrated Manufacturing</i> 19(3):283-299, 2003.
	AM	Nomura et al., "Integrated Visual Servoing System to Grasp Industrial Parts Moving on Conveyer by Controlling 6D0F Arm," <i>Systems, Man, and Cybernetics, 2000 IEEE International Conference</i> 3:1768-1775, October 2000.
	AN	Papanikolopoulos et al., "Six Degree-of-Freedom Hand/Eye Visual Tracking with Uncertain Parameters," <i>IEEE Transactions on Robotics and Automation</i> 11(5):725-732, October 1995.

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AA	Sang, T., et al., "Vision Assisted Robotic Tele-training," <i>IEEE International Conference on Mechatronics and Automation</i> , pp. 1288-1293, July 2005.
AB	Tarabanis, K.A., et al., "A Survey of Sensor Planning in Computer Vision," <i>IEEE Transactions on Robotics and Automation</i> 11(1):86-104, February 1995.
AC	Tarabanis, K.A., et al., "The MVP Sensor Planning System for Robotic Vision Tasks," <i>IEEE Transactions on Robotics and Automation</i> 11(1):72-85, February 1995.
AD	Vincze, M., "Robust tracking of ellipses at frame rate," <i>The Journal of Pattern Recognition</i> 34(2):487-498, 2001.
AE	Whaite, P., et al., "From Uncertainty to Visual Exploration," <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> 13(10):1038-1049, 1991.
AF	Wilson et al., "Relative End-Effector Control Using Cartesian Position Based Visual Servoing," <i>IEEE Transactions</i> 12(5):684-696, 1996.
AG	Zhou, F., et al., "Complete calibration of a structured light stripe vision sensor through planar target of unknown orientations," <i>Image and Vision Computing</i> 23:59-67, 2005.
AH	Office Action for U.S. Application No. 11/183,228, 12 pages, Mail Date 12/06/2006.
AI	Amendment filed in U.S. Application No. 11/183,228, 24 pages, Mail Date 04/05/2007.
AJ	Office Action for U.S. Application No. 11/183,228, 14 pages, Mail Date 06/08/2007.
AK	Amendment filed in U.S. Application No. 11/183,228, 8 pages, Mail Date 09/04/2007.
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